BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 10000000.00

Name of Work: Detailed Estimate for the work of Improvements to roads and drains at A sector main and cross roads in ward no - 04.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no142, PWD SR 2018-19)	cum							
	for road edge								
	From Ganesh Theater 3rd A cross junction		2	93.00	4.00	0.20	148.80		
	S Bank to Allalasandra lake 80 feet road A sector		2	427.00	1.50	0.20	256.20		
			2	130.00	1.50	0.20	78.00		
	berm cutting		1	120.00	0.60	0.10	7.20		
							490.20	137.80	67550.00
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Grand Total	137.80							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2018-19)	cum							
			Vide Item No. 1				490.20	82.13	40260.00
	Basic Rate for loading and unloading	57.00							
	Basic Rate for Haulage upto 8.00 k.m =1.28 X 2.50 X 8	20.48							
	Basic Rate	77.48							
	Area Weightage 6%	4.65							
	Grand Total	82.13							

No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18) Sr 2018-19	Cum							
	From Ganesh Theater 3rd A cross junction		2	93.00	4.00	0.20	148.80		
	S Bank to Allalasandra lake 80 feet road A sector		2	425.00	1.50	0.20	255.00		
			2	130.00	1.50	0.20	78.00		
							481.80	2001.28	**964217.00**
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Grand Total	2001.28							
4	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6) SR 2018-19	sqm							
			1	97.40	18.50		1801.90		
			1	650.00	2.55		1657.50		
			1	120.00	17.50		2100.00		
							5559.40	36.04	**200361.00**
	Basic Rate	34.00							
	Area Weightage 6%	2.04							
	Grand Total	36.04							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision. - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.160 It.No.21.17.6) KPWD SR 2018-19	cum							
			1	97.40	18.90	0.050	92.04		
			1	645.00	2.50	0.050	80.63		
			1	120.00	17.50	0.050	105.00		
							277.67	7721.04	**2143886.00**
	Basic Rate	7284.00							
	Area Weightage 6%	437.04							
	Grand Total	7721.04							
6	**KSRRB: 500-2 : Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per Specifications. (P.No.157 & I.No.21.2) KPWD SR 2018-19	Sqm							
			1	97.40	18.50		1801.90		
			1	650.00	14.00		9100.00		
			1	120.00	17.50		2100.00		
							13001.90		
	deduction		1	425.00	0.250		**106.25**		
							12895.65	5.30	**68347.00**
	Basic Rate	5.00							
	Area Weightage 6%	0.30							
	Grand Total	5.30							
7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm. Heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision. (P.No.158 & I.No.21.7) KPWD SR 2018-19	sqm							
			1	97.40	18.50		1801.90		

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	650.00	14.00		9100.00		
			1	120.00	17.50		2100.00		
							13001.90		
	deduction		1	425	0.25		106.25		
							12895.65	14.84	191371.00
	Basic Rate	14.00							
	Area Weightage 6%	0.84							
	Grand Total	14.84							
8	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (P.No.162 Item No.21.22.6) KPWD SR 2018-19	cum							
			1	97.40	18.50	0.040	72.08		
			1	650.00	14.00	0.040	364.00		
			1	120.00	17.50	0.040	84.00		
							520.08		
	deductions		1	425.00	0.25	0.040	4.25		
							515.83	8980.32	4632283.00
	Basic Rate	8472.00							
	Area Weightage 6%	508.32							
	Grand Total	8980.32							
9	KSRRB M800-13. Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface-providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P No.185 & I.No.24.15)	sqm							
			4	97.40	0.15		58.00		
			4	650.00	0.15		390.00		
			4	120.00	0.15		72.00		
							520.00	454.74	236465.00
	Basic Rate	429.00							
	Area Weightage 6%	25.74							
	Grand Total	454.74							
					Total construction cost				8544740.00
					GST 12%				1025368.80
					PMC 1%				85447.40
					KRIDL Service charge 4%				341790

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
								Miscellaneous charges	944.33
								Total	10000000.00

(Rupees Hundred Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Ramaraja Gowda

Assistant Engineer
Ward No.04

Assistant Executive Engineer
Yelahanka Satellite town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

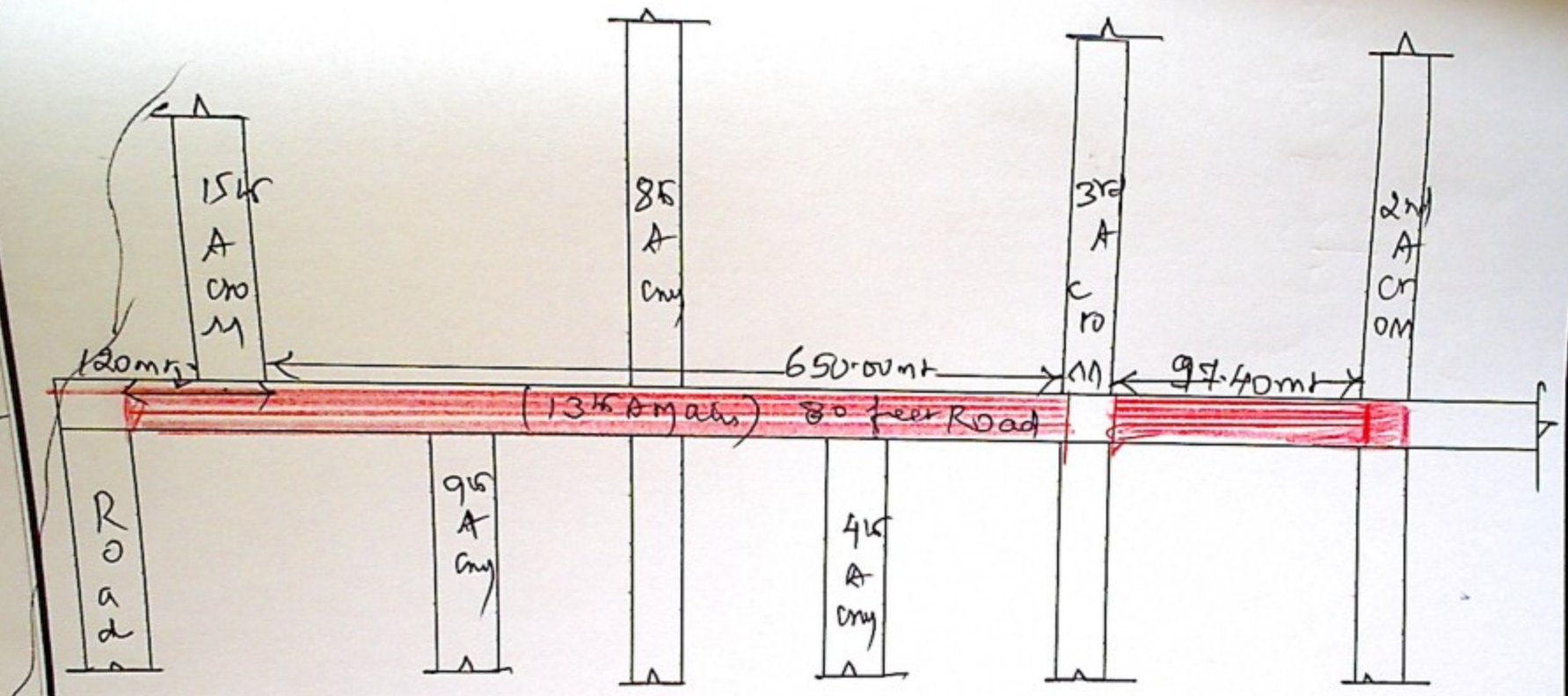
Administrative Sanction for Rs. 100.00 Lacs
Hundred Lakhs only
is accorded under head P.3521
- 2018-19
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No. EE/AE/HA/18-19 Dt. 2-3-19

Executive Engineer

Technical Sanction
Accorded For Rs 100.00 lakhs only
Head of A/C P.3521
CER NO 294 Dt: 02.03.19

JA CE (YNK)

Name of work: Improvements to roads and drains at A Sector main and cross roads in ward no -04.



INDEX: Proposed Asphalt work

A.E. Ramanjeevi AE

A.E.E.